Create a Histogram

Name: _____ Date: _____

Discrete Data:

Examples

Continuous Data:

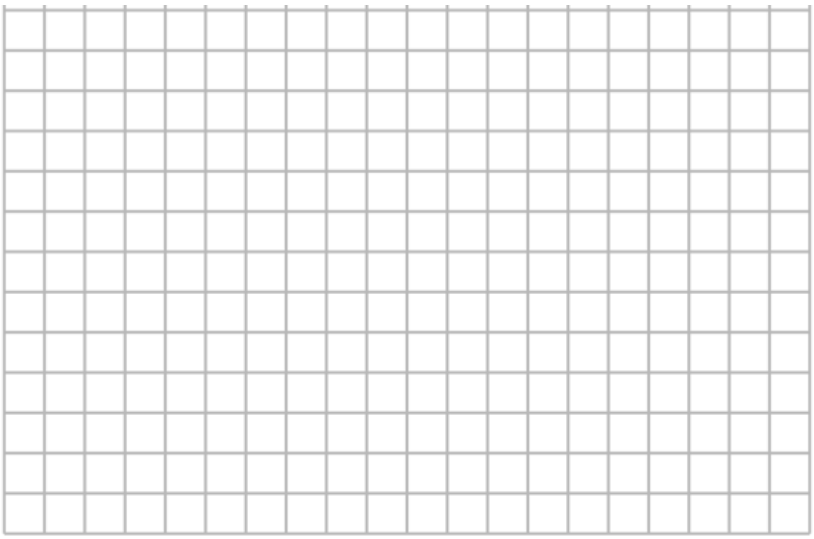
Examples

Create a Histogram

Here are the times for swimming 100m from several people:

113 124 108 89 93 92 102 98 88 104
103 114 125 136 79 123 90 93 87 99

Lowest Value: ____ Highest Value: _____
Intervals: _____



Interval	Tally

What do you think the average is? Draw a vertical line on the graph and label it “My Guess”

Calculate the Average to check your answer.

How does drawing the histogram help at guessing the average

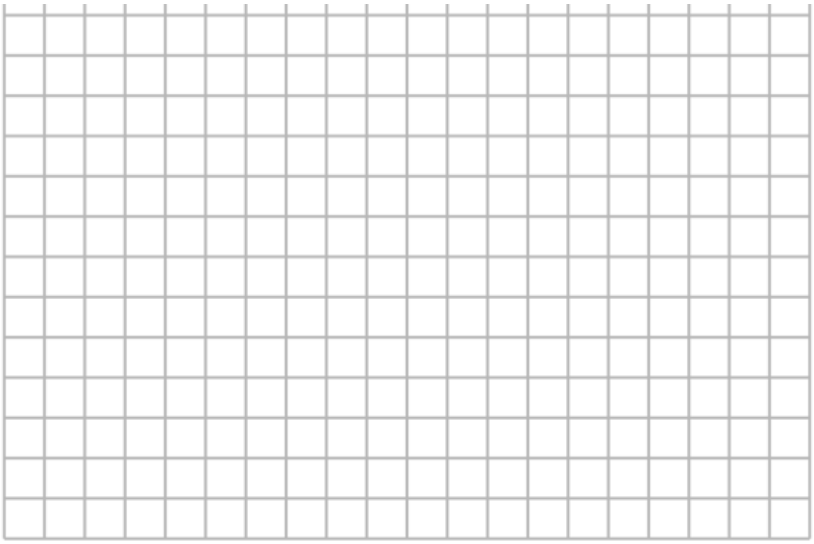
Practice:

1. Thirty students measure their stride length. Their measurements are seen below:

67	61	54	59	53	47	47	38	58	56	42	51	61	61	40
37	44	84	35	35	52	46	42	86	54	43	24	45	66	63

a) Create a Tally Chart of the measurements. Start by deciding what intervals to use

Interval	Tally



b) Create axes on the graph. The horizontal axis should match the intervals. The vertical axis should match the highest number in the tally

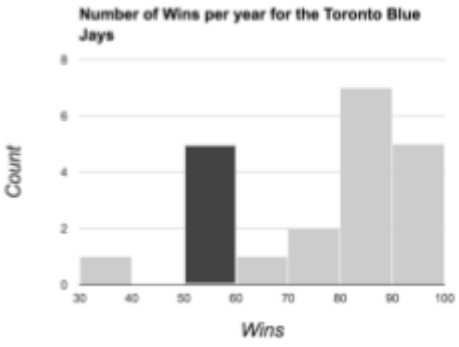
c) Draw the bars of the histogram

d) Look at the graph and make a guess as to what the average stride length is. How did you get your answer?

2. A student creates the following Tally Chart. Where would a tally mark for 50 be placed? Explain your thinking

Interval	Tally
35-40	III
40-45	IIII
45-50	𝍸 III
50-55	𝍸
55-60	II

3. What does the shaded bar in the graph tell you?



4. Circle which of the following sets of data would likely use a histogram.

a) Swimmer Times b) Number of games won

c) Hair colour d) Test Marks

d) Food Type

5. Turn the shown stem & leaf plot into a histogram

Stem	Leaf
2	3 5 5 7 8
3	2 6 6
4	5
5	0